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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 18770.005 |
| INTERNATIONAL APPLICATION NO. PCT/US2005/003665 | INTERNATIONAL FILING DATE 9 February 2005 | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/588,267 |
| PRIORITY DATE CLAIMED 9 February 2004 | | |
| TITLE OF INVENTION Methods for Reducing Particulate Matter Emissions from Diesel Engine Exhaust Using Ethanol/Diesel Fuel Blends... | | |
| APPLICANT(S) FOR DO/EO/US Alan Robert Semple RAE and Robert Leslie HALL | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| 1. <input type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. | | |
| 2. <input checked="" type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. | | |
| 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. | | |
| 4. <input type="checkbox"/> The US has been elected (Article 31). | | |
| 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). | | |
| 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). | | |
| 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. | | |
| 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). | | |
| 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). | | |
| 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). | | |
| Items 11 to 20 below concern document(s) or information included: | | |
| 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. | | |
| 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. | | |
| 13. <input type="checkbox"/> A preliminary amendment. | | |
| 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. | | |
| 15. <input type="checkbox"/> A substitute specification. | | |
| 16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter. | | |
| 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. | | |
| 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). | | |
| 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | | |

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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) | INTERNATIONAL APPLICATION NO. | ATTORNEY'S DOCKET NUMBER |
|---|-------------------------------|--------------------------|

20. Other items or information:

| The following fees have been submitted | CALCULATIONS | PTO USE ONLY | | | | | | | | | | | | | | | | |
|--|------------------------|---|---|------|--------------|--------|--|---------|--------------------|-------|--|---------|---|--|--|---------|----|--|
| 21. <input type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300 | \$ | | | | | | | | | | | | | | | | | |
| 22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c)) | \$ | | | | | | | | | | | | | | | | | |
| If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 | | | | | | | | | | | | | | | | | | |
| All other situations..... \$200 | | | | | | | | | | | | | | | | | | |
| 23. <input type="checkbox"/> Search fee (37 CFR 1.492(b)) | | | | | | | | | | | | | | | | | | |
| If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 | | | | | | | | | | | | | | | | | | |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 | | | | | | | | | | | | | | | | | | |
| International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 | | | | | | | | | | | | | | | | | | |
| All other situations..... \$500 | | | | | | | | | | | | | | | | | | |
| TOTAL OF 21, 22 and 23 = | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) in an electronic medium or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Total Sheets</th> <th style="width: 15%;">Extra Sheets</th> <th style="width: 35%;">Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th style="width: 35%;">RATE</th> </tr> </thead> <tbody> <tr> <td>- 100 =</td> <td>/50 =</td> <td></td> <td>x \$250</td> </tr> </tbody> </table> | Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | - 100 = | /50 = | | x \$250 | \$ | | | | | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | | | | | | | | | | | | | | | |
| - 100 = | /50 = | | x \$250 | | | | | | | | | | | | | | | |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). | \$ | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">CLAIMS</th> <th style="width: 15%;">NUMBER FILED</th> <th style="width: 15%;">NUMBER EXTRA</th> <th style="width: 35%;">RATE</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>- 20 =</td> <td></td> <td>x \$ 50</td> </tr> <tr> <td>Independent claims</td> <td>- 3 =</td> <td></td> <td>x \$200</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$360</td> </tr> </tbody> </table> | CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | Total claims | - 20 = | | x \$ 50 | Independent claims | - 3 = | | x \$200 | MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360 | \$ | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | | | | | | | | | | | | | | |
| Total claims | - 20 = | | x \$ 50 | | | | | | | | | | | | | | | |
| Independent claims | - 3 = | | x \$200 | | | | | | | | | | | | | | | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360 | | | | | | | | | | | | | | | |
| TOTAL OF ABOVE CALCULATIONS = | \$ | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | | | | | | | | | | | | | | | | |
| SUBTOTAL = | \$ | | | | | | | | | | | | | | | | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | \$ | | | | | | | | | | | | | | | | | |
| TOTAL NATIONAL FEE = | \$ | | | | | | | | | | | | | | | | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | \$ | | | | | | | | | | | | | | | | | |
| TOTAL FEES ENCLOSED = | \$ | | | | | | | | | | | | | | | | | |
| | Amount to be refunded: | \$ | | | | | | | | | | | | | | | | |
| | Amount to be charged | \$ | | | | | | | | | | | | | | | | |

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- a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2387. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038. The PTO-2038 should only be mailed or faxed to the USPTO. However, when paying the basic national fee, the PTO-2038 may NOT be faxed to the USPTO.

ADVISORY: If filing by EFS-Web, do **NOT** attach the PTO-2038 form as a PDF along with your EFS-Web submission. Please be advised that this is **not** recommended and by doing so your **credit card information may be displayed via PAIR**. To protect your information, it is recommended paying fees online by using the electronic payment method.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Customer No. 28381


SIGNATURE

Gautam Prakash

NAME

53481

REGISTRATION NUMBER

ARNOLD & PORTER LLP

202.942.5000
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555 Twelfth Street, NW
Washington, DC 20004-1206

June 6, 2007

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: U.S. Application No.: 10/588,267
International Filing Date: February 9, 2005
Title: Methods for Reducing Particulate Matter Emissions from
Diesel Engine Exhaust Using Ethanol/Diesel Fuel Blends
in Combination with Diesel Oxidation Catalysts
Applicants: Alan Robert Semple RAE *et al.*
Attorney Docket No.: 18770.005

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

1. a Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Submission Under 35 U.S.C. 371 (Form PTO-1390);
2. a copy of a Combined Declaration and Power of Attorney for Patent Application executed by Alan Robert Semple Rae (2 pages);
3. a copy of a Combined Declaration and Power of Attorney for Patent Application executed by Robert Leslie Hall (2 pages);
4. an Information Disclosure Statement;
5. Form PTO-1449 with four (4) accompanying references; and
6. a return postcard.

Please stamp the attached postcard with the filing date of these documents and return it to our courier.

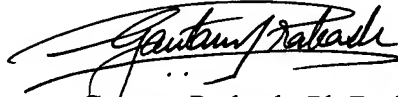
In the event that extensions of time beyond those petitioned for herewith are necessary to prevent abandonment of this patent application, then such extensions of time are hereby

ARNOLD & PORTER LLP

Commissioner for Patents
U.S. Application No. 10/588,267
June 6, 2007
Page 2

petitioned. Applicants do not believe any fees are due in conjunction with this filing. However, if any fees are required in the present application, including any fees for extensions of time, then the Commissioner is hereby authorized to charge such fees to Arnold & Porter LLP Deposit Account No. 50-2387 referencing matter number P30408US01.

Respectfully submitted,



Gautam Prakash, Ph.D. (Reg. Agent No. 53,481)
Holly Logue Prutz (Reg. Atty. No. 47,755)
David R. Marsh (Reg. Atty. No. 41,408)

Enclosures